

STN

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 09:45:25 ON 10 SEP  
2007

L1 24234 S GLUCOSE (1N) OXIDASE  
L2 4698 S L1 AND (MUTA? OR VARIA? OR MODIFI? OR SUBSTITU?)  
L3 1114 S L2 AND (PEROXIDE OR H2O2)  
L4 1732 S L1 (10N) (MUTA? OR VARIA? OR MODIFI? OR SUBSTITU?)  
L5 395 S L4 AND (PEROXIDE OR H2O2)  
L6 287 DUP REM L5 (108 DUPLICATES REMOVED)  
L7 0 S L6 AND PY=<2001  
L8 202 S L6 AND PY=<2001  
L9 77 S L4 (10N) (PEROXIDE OR H2O2)  
L10 61 DUP REM L9 (16 DUPLICATES REMOVED)  
L11 36 S L10 AND PY<2001  
L12 156 S L1 (10N) (MUTANT OR MUTAGE?)  
L13 30 S L12 AND (PEROXIDE OR H2O2)  
L14 14 DUP REM L13 (16 DUPLICATES REMOVED)  
L15 45104 S ENZYME (10N) (MUTANT OR MUTAGE?)  
L16 83 S L15 (10N) (PEROXIDE OR H2O2)  
L17 52 DUP REM L16 (31 DUPLICATES REMOVED)  
L18 33 S L17 AND PY<2001  
L19 14 S L18 AND (DNA OR GENE)  
L20 196172 S (GENE OR DNA) (10N) (MUTANT OR MUTAGE?)  
L21 464 S L20 (10N) (PEROXIDE OR H2O2)  
L22 29 S L21 AND (PCR OR LIBRARY OR RANDOM)  
L23 15 DUP REM L22 (14 DUPLICATES REMOVED)  
L24 271 S L21 AND PY<2001  
L25 150 DUP REM L24 (121 DUPLICATES REMOVED)  
L26 34 S L25 AND (RESIST? )  
L27 3 S L25 AND LIBRARY  
L28 1 S L27 AND (RANDOM)

L19 ANSWER 5 OF 14 MEDLINE on STN  
AN 91099493 MEDLINE  
DN PubMed ID: 2269354  
TI Engineering of microheterogeneity-resistant p-hydroxybenzoate hydroxylase  
from *Pseudomonas fluorescens*.  
AU Eschrich K; van Berkel W J; Westphal A H; de Kok A; Mattevi A; Obmolova G;  
Kalk K H; Hol W G  
CS Department of Biochemistry, Agricultural University, Wageningen, The  
Netherlands.  
SO FEBS letters, (1990 Dec 17) Vol. 277, No. 1-2, pp. 197-9.  
Journal code: 0155157. ISSN: 0014-5793.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
(RESEARCH SUPPORT, NON-U.S. GOV'T)  
LA English  
FS Priority Journals  
EM 199102  
ED Entered STN: 29 Mar 1991  
Last Updated on STN: 29 Mar 1991  
Entered Medline: 20 Feb 1991  
AB By site-directed mutagenesis, Cys-116 was converted to Ser-116 in  
p-hydroxybenzoate hydroxylase (EC 1.14.13.2) from *Pseudomonas fluorescens*.  
In contrast to wild-type enzyme, the C116S mutant is  
no longer susceptible to oxidation by hydrogen peroxide and  
shows no reactivity towards 5,5'-dithiobis(2-nitrobenzoate). Crystals of  
the C116S mutant are isomorphous with the crystal form of wild-type  
enzyme. A difference electron density confirms the mutation made.